

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP 2004/011101**A. CLASSIFICATION OF SUBJECT MATTER**Int.Cl⁷ **H01L21/304**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ **H01L21/304**Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01/084621 A (KK. EBARA SEISAKUSYO)	1-55
X	2001.11.08, fig.5 (Family:none)	56-61
Y	JP 11-297808 A (SPEEDFAM CLEAN SYSTEM KK.)	1-55
	1999.10.29, fig.1-8 (Family:none)	
Y	JP 7-283107 A (DAINI HON SCREEN SEIZO KK.)	1-55
	1995.10.27, fig.3-5 (Family:none)	
Y	JP 11-151467 A (KK. SPROUT)	6-15, 32, 45
	1999.06.08, fig.2	
	& US 6220935 B1 (Sprout Co., Ltd.)	
	2001.04.24, fig.2	
Y	JP 2003-197591 A (KK. EBARA SEISAKUSYO)	12-14, 19-27,
	2003.07.11, fig.24	34-36, 38-45,
	& WO 03/056614 A1 (EBARA CORPORATION)	49-52, 54, 55
	2003.07.10, fig.24	

☐ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 02.11.2004	Date of mailing of the international search report 22.11.2004
Name and mailing address of the ISA/JP Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Authorized officer KURIYAMA TAKUYA Telephone No. +81-3-3581-1101 Ext. 3332
	3K 9628

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

The substrate processing apparatus/method of claim 1-55 relates to a suction unit while the substrate holding apparatus of claim 56-61 relates to a plurality of rollers. There is no technical relationship among those inventions involving one or more of the same or corresponding technical features. Therefore, these groups of inventions are not so linked as to form a single general inventive concept.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.